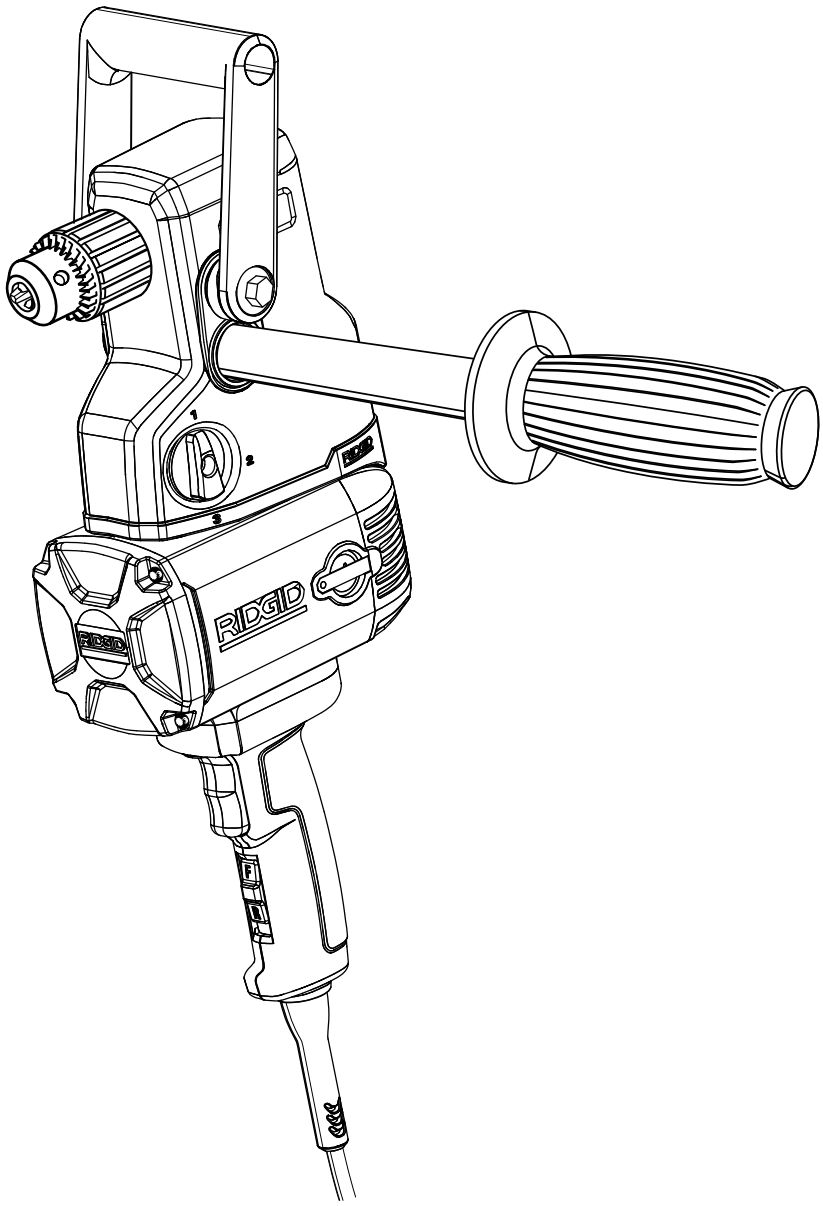
# OPERATOR'S MANUAL

## 1/2 in. RIGHT ANGLE DRILL
## DOUBLE INSULATED

## R7130




Your right angle drill has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance.

**⚠ WARNING:**
To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

Thank you for buying a RIDGID product.

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

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# INTRODUCTION

This tool has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

# GENERAL SAFETY RULES

**⚠ WARNING:**
**Read all instructions.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## SAVE THESE INSTRUCTIONS

## WORK AREA SAFETY

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

## ELECTRICAL SAFETY

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

## PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.
- **Do not wear loose clothing or jewelry. Contain long hair.** Loose clothes, jewelry, or long hair can be drawn into air vents.
- **Do not use on a ladder or unstable support.** Stable footing on a solid surface enables better control of the power tool in unexpected situations.

## POWER TOOL USE AND CARE

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

# GENERAL SAFETY RULES

## SERVICE

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- **When servicing a power tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock or injury.

**⚠ WARNING!**
To reduce risk of injury, user must read instruction manual.

# SPECIFIC SAFETY RULES

- **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the cutting tool "live" and shock the operator.
- **Use auxiliary handles supplied with the tool.** Loss of control can cause personal injury.
- **Know your power tool. Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this tool.** Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Always wear safety glasses. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.** Following this rule will reduce the risk of serious personal injury.
- **Protect your lungs. Wear a face or dust mask if the operation is dusty.** Following this rule will reduce the risk of serious personal injury.
- **Protect your hearing. Wear hearing protection during extended periods of operation.** Following this rule will reduce the risk of serious personal injury.
- **Inspect tool cords periodically and, if damaged, have repaired at your nearest authorized service center. Constantly stay aware of cord location.** Following this rule will reduce the risk of electric shock or fire.
- **Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center.** Following this rule will reduce the risk of shock, fire, or serious injury.
- **Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. A wire gauge size (A.W.G.) of at least 14 is recommended for an extension cord 50 feet or less in length. A cord exceeding 100 feet is not recommended. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.** An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
- **Inspect for and remove all nails from lumber before using this tool.** Following this rule will reduce the risk of serious personal injury.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.

**⚠ WARNING:**
Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

# SYMBOLS

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

| SYMBOL | NAME | DESIGNATION/EXPLANATION |
|---|---|---|
| V | Volts | Voltage |
| A | Amperes | Current |
| Hz | Hertz | Frequency (cycles per second) |
| W | Watt | Power |
| min | Minutes | Time |
| ~ | Alternating Current | Type of current |
| ⎓ | Direct Current | Type or a characteristic of current |
| $n_o$ | No Load Speed | Rotational speed, at no load |
| ⧈ | Class II Construction | Double-insulated construction |
| .../min | Per Minute | Revolutions, strokes, surface speed, orbits etc., per minute |
| | Wet Conditions Alert | Do not expose to rain or use in damp locations. |
| | Read The Operator's Manual | To reduce the risk of injury, user must read and understand operator's manual before using this product. |
| | Eye Protection | Always wear safety goggles, safety glasses with side shields, or a full face shield when operating this product. |
| | Safety Alert | Precautions that involve your safety. |
| | No Hands Symbol | Failure to keep your hands away from the blade will result in serious personal injury. |
| | No Hands Symbol | Failure to keep your hands away from the blade will result in serious personal injury. |
| | No Hands Symbol | Failure to keep your hands away from the blade will result in serious personal injury. |
| | No Hands Symbol | Failure to keep your hands away from the blade will result in serious personal injury. |
| | Hot Surface | To reduce the risk of injury or damage, avoid contact with any hot surface. |

# SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

| SYMBOL | SIGNAL | MEANING |
|---|---|---|
| ⚠ | **DANGER:** | Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury. |
| ⚠ | **WARNING:** | Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury. |
| ⚠ | **CAUTION:** | Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. |
| | **CAUTION:** | (Without Safety Alert Symbol) Indicates a situation that may result in property damage. |

## SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to your nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

**⚠ WARNING:**

To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the operator's manual. Save this operator's manual and review frequently for continuing safe operation and instructing others who may use this product.

**⚠ WARNING:**

The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles, safety glasses with side shields, or a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

# SAVE THESE INSTRUCTIONS

# ELECTRICAL

## DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the usual three-wire grounded power cord. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double insulated tools do not need to be grounded.

**WARNING:**
The double insulated system is intended to protect the user from shock resulting from a break in the tool's internal wiring. Observe all normal safety precautions to avoid electrical shock.

**NOTE:** Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service, we suggest you return the tool to your nearest authorized service center for repair. Always use original factory replacement parts when servicing.

## ELECTRICAL CONNECTION

This tool has a precision-built electric motor. It should be connected to a **power supply that is 120 volts, 60 Hz, AC only (normal household current)**. Do not operate this tool on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If your tool does not operate when plugged into an outlet, double-check the power supply.

## EXTENSION CORDS

When using a power tool at a considerable distance from a power source, be sure to use an extension cord that has the capacity to handle the current the tool will draw. An undersized cord will cause a drop in line voltage, resulting in overheating and loss of power. Use the chart to determine the minimum wire size required in an extension cord. Only round jacketed cords listed by Underwriter's Laboratories (UL) should be used.

When working outdoors with a tool, use an extension cord that is designed for outside use. This type of cord is designated with "WA" on the cord's jacket.

Before using any extension cord, inspect it for loose or exposed wires and cut or worn insulation.

**Ampere rating (on tool data plate)

| | 0-2.0 | 2.1-3.4 | 3.5-5.0 | 5.1-7.0 | 7.1-12.0 | 12.1-16.0 |
|---|---|---|---|---|---|---|
| **Cord Length** | **Wire Size (A.W.G.)** | | | | | |
| 25' | 16 | 16 | 16 | 16 | 14 | 14 |
| 50' | 16 | 16 | 16 | 14 | 14 | 12 |
| 100' | 16 | 16 | 14 | 12 | 10 | — |

**Used on 12 gauge - 20 amp circuit.
**NOTE:** AWG = American Wire Gauge

**WARNING:**
Keep the extension cord clear of the working area. Position the cord so that it will not get caught on lumber, tools or other obstructions while you are working with a power tool. Failure to do so can result in serious personal injury.

**WARNING:**
Check extension cords before each use. If damaged replace immediately. Never use tool with a damaged cord since touching the damaged area could cause electrical shock resulting in serious injury.

# FEATURES

## PRODUCT SPECIFICATIONS

Drill ..... 1/2 in.
Switch.....Single Speed/Reversible
No Load Speed .....300/600/1200/min.
Input .....120 V, 60 Hz, AC only, 8 Amps
Tool Weight ..... 12.5 lbs.

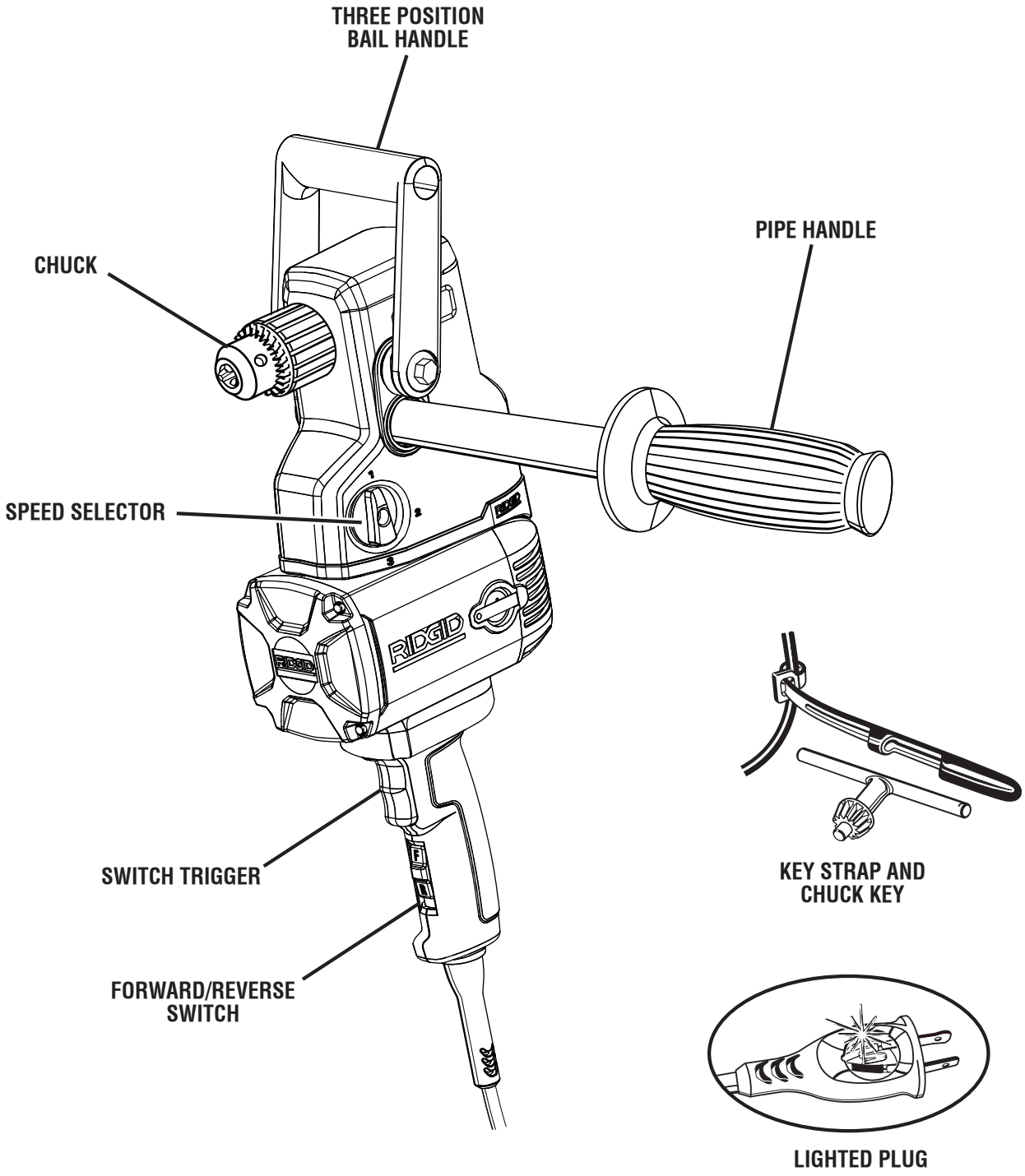



Fig. 1

# FEATURES

### KNOW YOUR RIGHT ANGLE DRILL

*See Figure 1.*

Before attempting to use this product, familiarize yourself with all operating features and safety rules.

### CHUCK KEY

A chuck key has been provided for use when installing or removing bits and removing the chuck. When not in use, the chuck key can be placed in the key strap.

### EXTERNALLY ACCESSIBLE BRUSHES

Externally accessible brushes extend the life of the machine.

### LIGHTED PLUG

This drill has a 12-foot power cord and cord wrap with a lighted plug to easily identify live tools.

### FORWARD/REVERSE SWITCH

The drill has a forward/reverse switch located on the handle of the tool.

### PIPE HANDLE

This drill is equipped with a heavy-duty pipe handle for ease of operation and to prevent loss of control. The handle can be installed onto either side of the drill for right- or left-handed operation.

### SPEED SELECTOR

There is a speed selector on the side of the drill for three speeds: HIGH, MEDIUM and LOW.

### THREE POSITION BAIL HANDLE

This drill is equipped with a bail handle that can be adjusted to three different operating positions.

# ASSEMBLY

### UNPACKING

This product requires assembly:

- Carefully remove the tool and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
- If any parts are damaged or missing, please call 1-866-539-1710 for assistance.

### PACKING LIST

1/2 in. Right Angle Drill

Pipe Handle

Chuck Key

Key Strap

Operator's Manual

**WARNING:**

If any parts are missing do not operate this tool until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

**WARNING:**

Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

**WARNING:**

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

# ASSEMBLY

## INSTALLING THE PIPE HANDLE

*See Figure 2.*

- Unplug the drill.
- Insert the pipe handle into the 3/4 NPT threaded hole on the side of the drill.
- Turn the handle clockwise to securely hand-tighten the handle.
- The pipe handle may be installed either on the left or right side of the drill.

## INSTALLING BITS

*See Figures 3 - 4.*

- Unplug the drill.
- Insert the chuck key provided and twist counterclockwise.
- Insert the drill bit into the chuck the full length of the jaws.

**⚠ WARNING:**
Do not insert drill bit into chuck jaws and tighten as shown in figure 4. This could cause the drill bit to be thrown from the drill resulting in possible serious personal injury or damage to the chuck.

- Tighten the chuck jaws securely on the drill bit, turning clockwise with the chuck key provided. Do not use a wrench to tighten or loosen the chuck jaws. For best performance, repeat this for the remaining two key holes.
- Remove the chuck key and return it to the key strap.

## REMOVING BITS

- Unplug the drill.
- Loosen the chuck jaws using the chuck key provided. See “Installing Bits.”
- Remove the drill bit from the chuck jaws.
- Remove the chuck key and return it to the key strap.

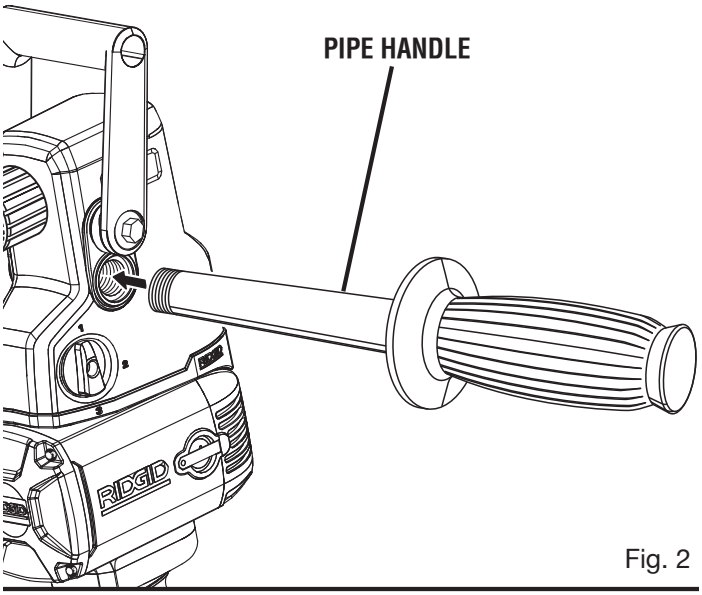


Fig. 2

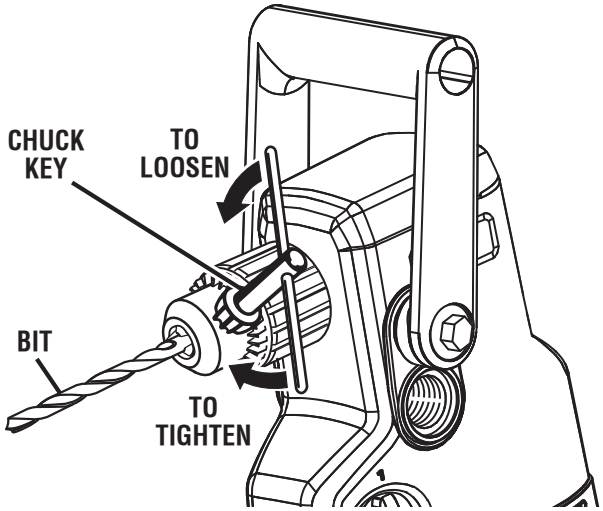


Fig. 3

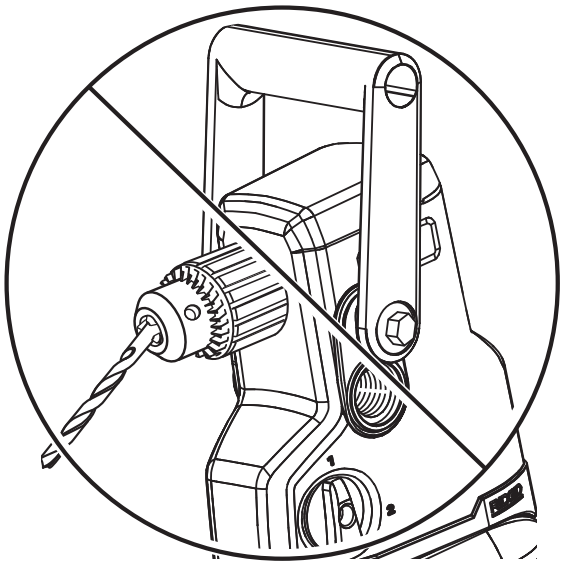


Fig. 4

# OPERATION

**WARNING:**
Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict severe injury.

**WARNING:**
Always wear safety goggles or safety glasses with side shields when operating tools. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.

**WARNING:**
Do not use any attachments or accessories not recommended by the manufacturer of this tool. The use of attachments or accessories not recommended can result in serious personal injury.

## APPLICATIONS

You may use this tool for the purposes listed below:

- Drilling in wood
- Drilling in both hard and soft metals

## SETTING THE POSITION OF THE BAIL HANDLE

*See Figure 5.*

The bail handle may be adjusted to three positions, depending on the application and the angle that will give you most control and best access to the workpiece.

To set the position of the bail handle:

- Using a 14 mm wrench, loosen the hex head screw on each side of the tool by turning counterclockwise. It is not necessary to remove the screws.
- Adjust the handle forward or back until the desired position is reached.
- Tighten the screw on each side by turning the wrench clockwise. Do not overtighten.

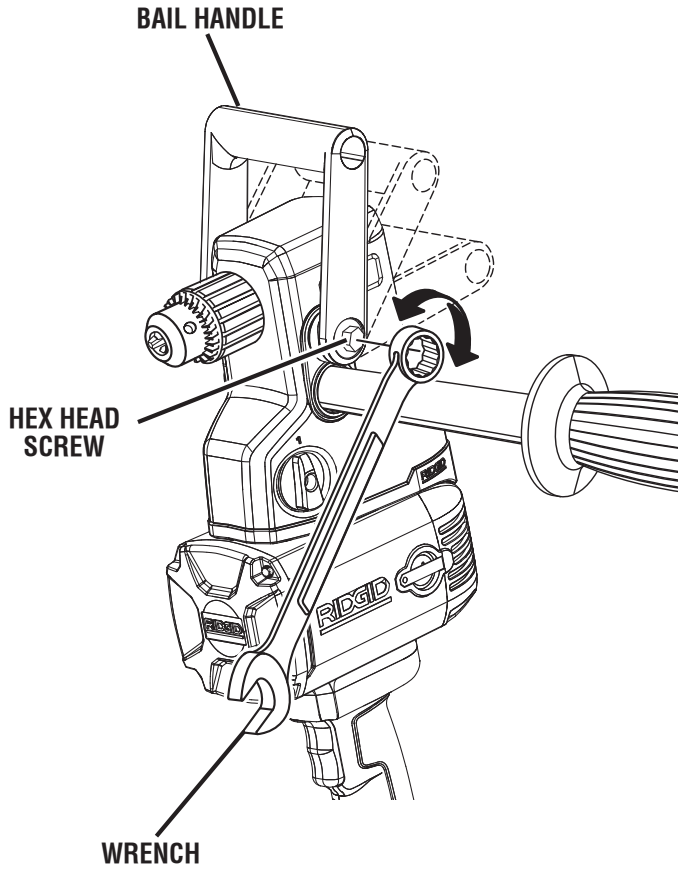



Fig. 5

# OPERATION

## SWITCH TRIGGER

*See Figure 6.*

To turn the drill **ON**, depress the switch trigger. Release switch trigger to turn the drill **OFF**.

## FORWARD/REVERSE SWITCH

*See Figure 6.*

The direction of chuck rotation is reversible and is controlled by a forward/reverse switch located on the handle of the drill.

**NOTE:** Do not change the direction of rotation while the drill is running. Release the switch trigger and allow the drill to stop before changing direction.

## SPEED SELECTOR

*See Figure 7.*

The speed of the drill can be changed by turning the speed selector to LOW, MEDIUM or HIGH.

This drill features three speed settings for various applications:

- LOW (1) Speed (300/min.)
- MEDIUM (2) Speed (600/min.)
- HIGH (3) Speed (1200/min.)

### CAUTION:

Never change gears while the tool is running. Failure to obey this caution could result in serious damage to the drill.

## CLUTCH

This drill features a clutch that limits the amount of torque transferred to the user. With an excessive load, the clutch will slip and make a ratcheting sound. The clutch disengages the bit from the gear train to reduce the chance of damage to the tool or of causing the user to lose control.

**NOTE:** Do not continuously operate the tool when the clutch is slipping. Doing so will shorten the life of the tool.

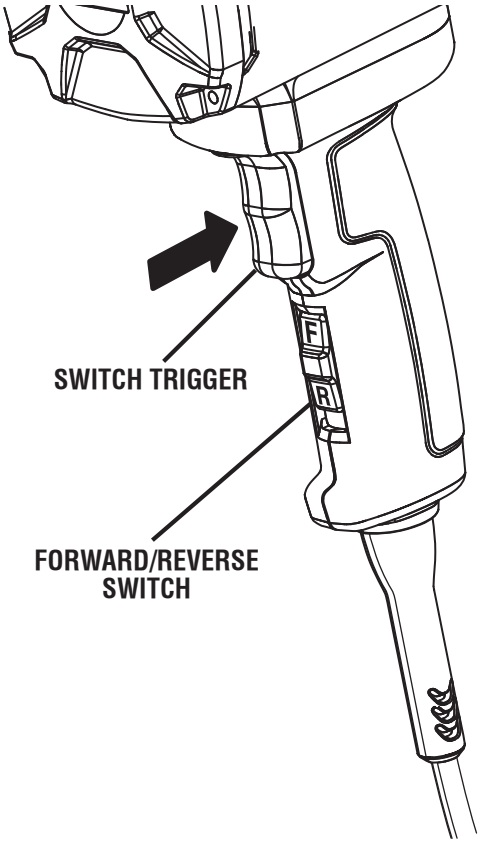



Fig. 6

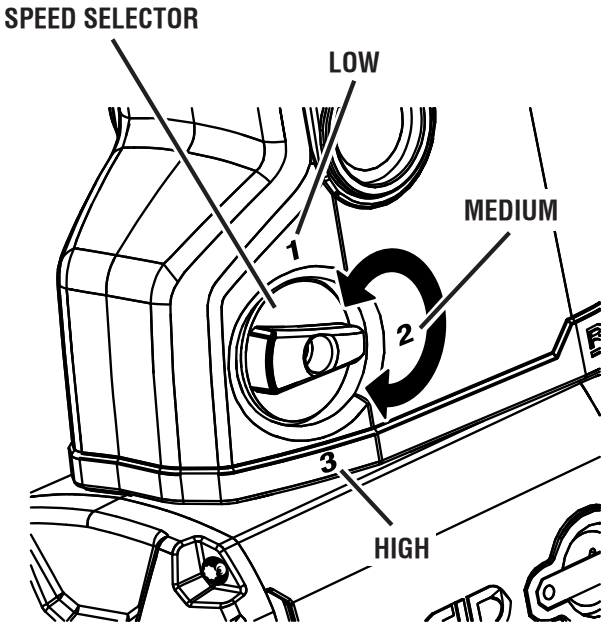



Fig. 7

# OPERATION

## BIT SELECTION

**WARNING:**
Do not use bits larger than the ones listed for HIGH (3) speed in the chart below when drilling at HIGH speed. Using a bit that is too large for high speed applications can result in serious personal injury and can cause damage to the tool.

| Speed | Type of Bit / Drilling in Wood | Type of Bit / Drilling in Steel |
|---|---|---|
| **LOW (1) - High torque applications** | Self-feeding bits up to 4-5/8 in. diameter | Bits up to 1 in. twist |
| **MEDIUM (2)** | Self-feeding bits up to 2-9/16 in. diameter | Bits up to 3/4 in. twist |
| **HIGH (3) - Low torque applications** | Self-feeding bits up to 1-3/8 in. diameter | Bits up to 1/2 in. twist |

**NOTE:** Always use the drill in LOW (1) speed when high torque is needed. Do not use HIGH (3) Speed for a high torque job.

## BIT BINDING

*See Figure 8.*

If the bit binds, the drill will suddenly react in the opposite direction of the rotation of the bit.

To reduce the chances of bit binding:

- Always use sharp bits.
- Use the proper bit for the application.
- Select the correct speed for the size bit you are using.
- Avoid drilling in warped, wet or knotty material.
- Avoid drilling in workpieces that could contain hidden fasteners or other foreign objects.

**WARNING**
This tool delivers high rotational forces. Never use your body to brace the drill. Never put your hands or other body parts between the part of the drill being braced and the object it is being braced against. Doing so can result in serious personal injury.

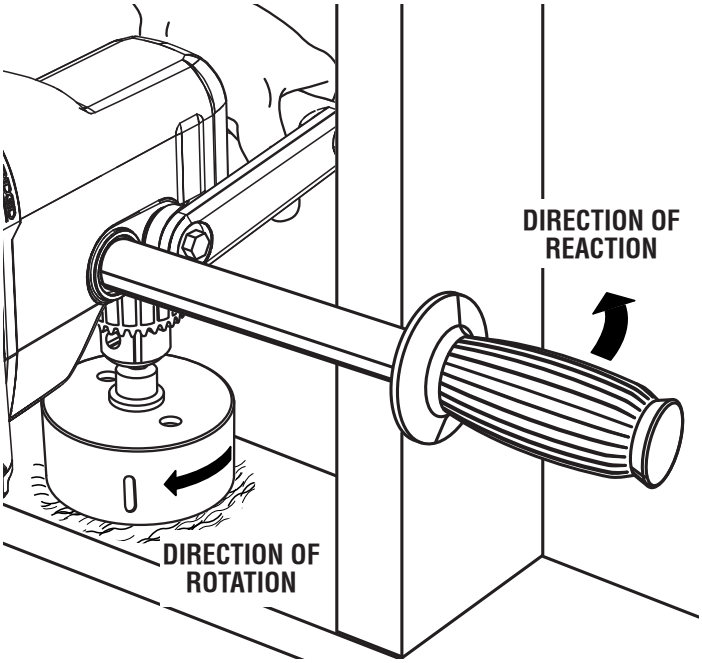



Fig. 8

# OPERATION

## DRILLING

*See Figures 9 - 11.*

- Attach the pipe handle.
- Select the appropriate position for the bail handle.
- Set the speed selector at the desired speed for the type of bit you are using.
- Check the direction of rotation lever for correct setting (forward or reverse).
- Be sure the material to be drilled is secure and will not move as the drill bit rotates.
- Plug the drill into power supply source.
- Hold the drill firmly and place the bit at the point to be drilled.

**WARNING:**
To avoid loss of control or serious personal injury, always use both hands when operating this tool. Grip the bail handle or the pipe handle firmly with one hand and grip the switch handle of the tool with the other hand.

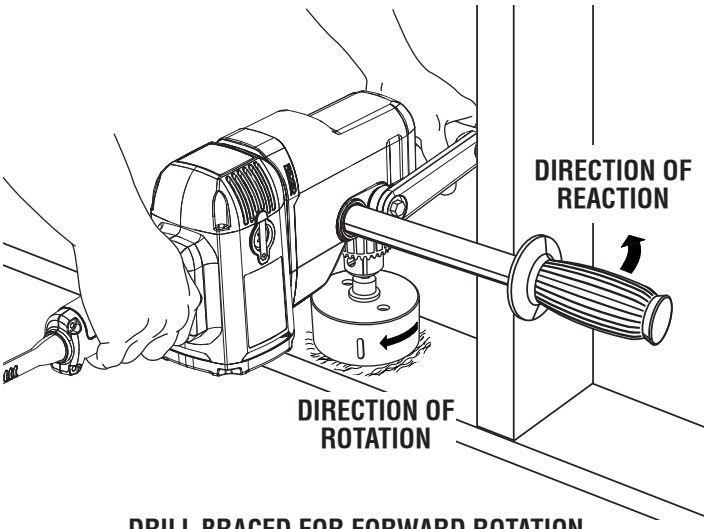
**WARNING:**
When drilling in HIGH speed, always hold the drill securely using the pipe handle, or brace the drill against a solid fixed object. Failure to securely brace the drill can result in serious personal injury.

- Depress the switch trigger to start the drill.
- Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting. Do not force the drill or apply side pressure to elongate a hole. Let the drill and bit do the work.

**WARNING:**
Be prepared for binding at bit breakthrough. When binding occurs, the drill has a tendency to react and kick opposite to the direction of rotation. This may cause loss of control when breaking through materials. If not prepared, this loss of control can result in possible serious injury.

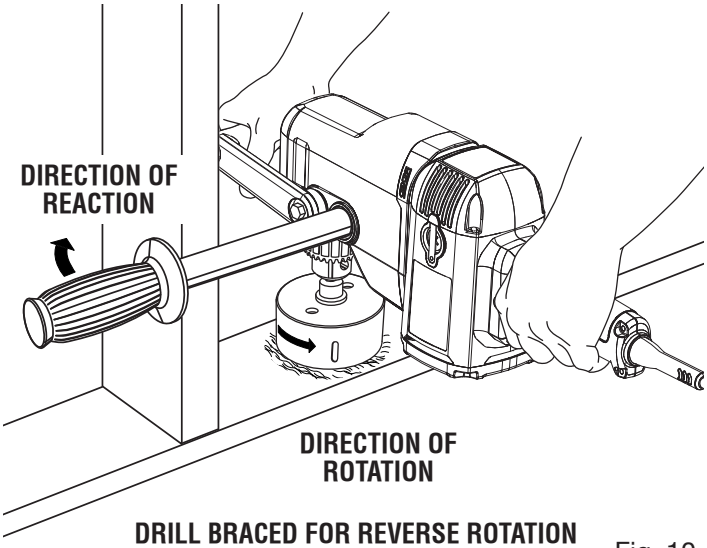
**NOTE:** When drilling in forward, the bit will rotate in a clockwise direction. If the bit binds in the hole, the bit will come to a sudden stop and the drill will suddenly react in a counterclockwise direction.

When drilling in reverse, the bit will rotate in a counter-clockwise direction. If the bit binds in the hole, the bit will come to a sudden stop and the drill will suddenly react in a clockwise direction.



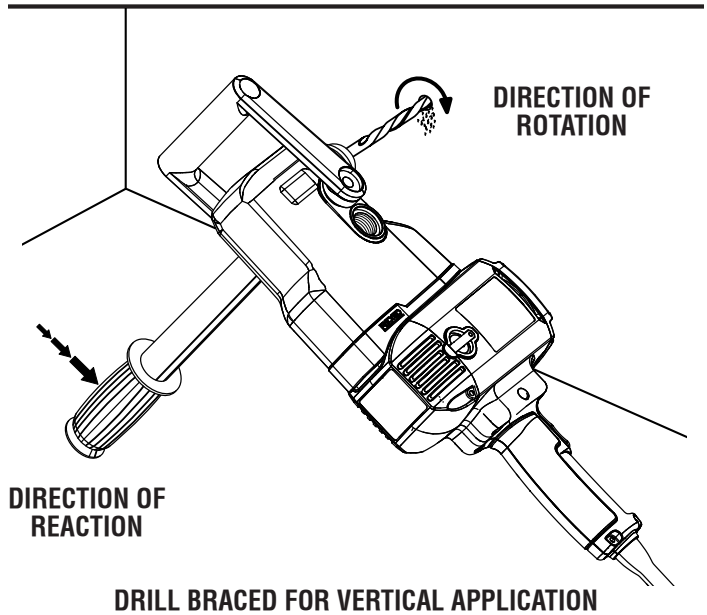

DRILL BRACED FOR FORWARD ROTATION

Fig. 9




DRILL BRACED FOR REVERSE ROTATION

Fig. 10




DRILL BRACED FOR VERTICAL APPLICATION

Fig. 11

# MAINTENANCE

**WARNING:**
When servicing use only identical RIDGID replacement parts. Use of any other parts may create a hazard or cause product damage.

**WARNING:**
Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

## GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

**WARNING:**
Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently, we do not recommended using this tool for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the tool using compressed air.

## LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

**WARNING:**
This tool should never be connected to a power supply when you are performing maintenance. Disconnecting the tool will prevent accidental starting that could cause serious injury.

## BRUSH REPLACEMENT

*See Figure 12.*

The drill has externally accessible brush assemblies that should be periodically checked for wear.

To replace the brushes:

- Unplug the drill.
- Using a T10 torx screwdriver, remove the screw that holds the brush cap cover in place.
- Remove the brush cap with a flat blade screwdriver. The brush assembly is spring loaded and will pop out when you remove the brush cap.
- Remove the brush assembly (brush and spring).
- Check for wear. If worn, always replace in pairs. **Do not** replace one side without replacing the other.
- Replace the old brush assembly with a new one.
- Place the brush cap on the brush assembly and tighten with the flat blade screwdriver.
- Place the brush cap cover on the brush assembly and tighten with the torx screwdriver.

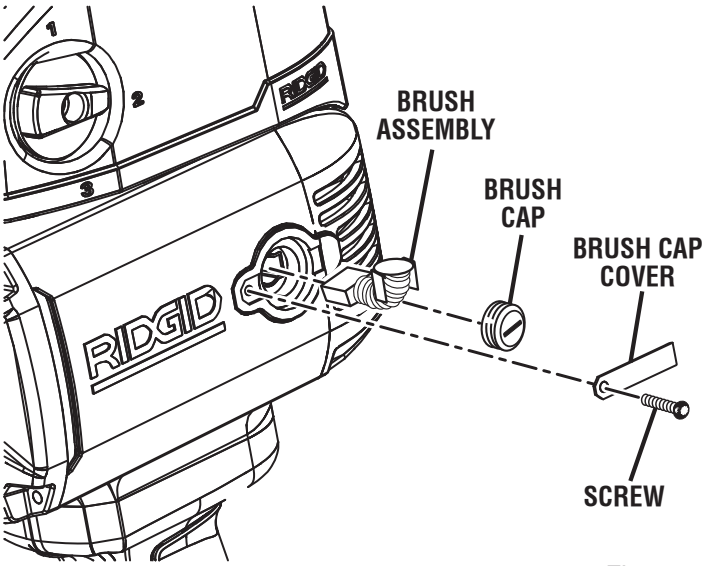



Fig. 12

# MAINTENANCE

## CHUCK REMOVAL

*See Figures 13 - 15.*

To remove the chuck:

- Unplug the drill.
- Select LOW (1) speed.
- Open chuck jaws using the provided chuck key.
- Insert a 3/8 in.  or larger hex key wrench into the chuck of the drill and tighten the chuck jaws securely.
- Tap the hex key wrench sharply with a mallet in a clockwise direction. This will loosen the screw in the chuck for easy removal.
- Open chuck jaws and remove hex key. Remove the chuck screw by turning it in a clockwise direction.

  **NOTE:** The screw has left hand threads.
- Insert hex key wrench in the chuck and tighten chuck jaws securely.
- Tap sharply with a mallet in a counterclockwise direction. This will loosen chuck on the spindle. It can now be unscrewed by hand.

## TO RETIGHTEN A LOOSE CHUCK

*See Figure 15.*

The chuck may become loose on the spindle and develop a wobble when using the drill. Periodically check chuck screw for tightness. A loose screw may cause the chuck jaws to bind and prevent them from closing.

To tighten:

- Unplug the drill.
- Open the chuck jaws.
- Insert the hex key wrench into the chuck and tighten the chuck jaws securely. Tap the hex key sharply with a mallet in a clockwise direction. This will tighten the chuck on the spindle.
- Open the chuck jaws and remove the hex key wrench.
- Tighten the chuck screw by turning counterclockwise.

  **NOTE:** The chuck screw has left hand threads.

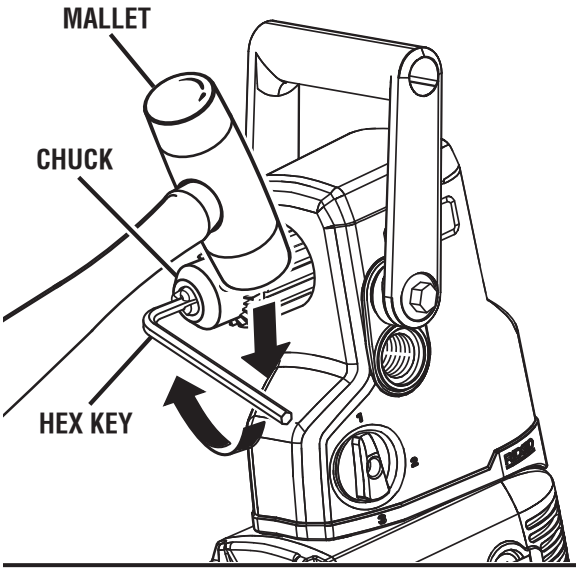



Fig. 13

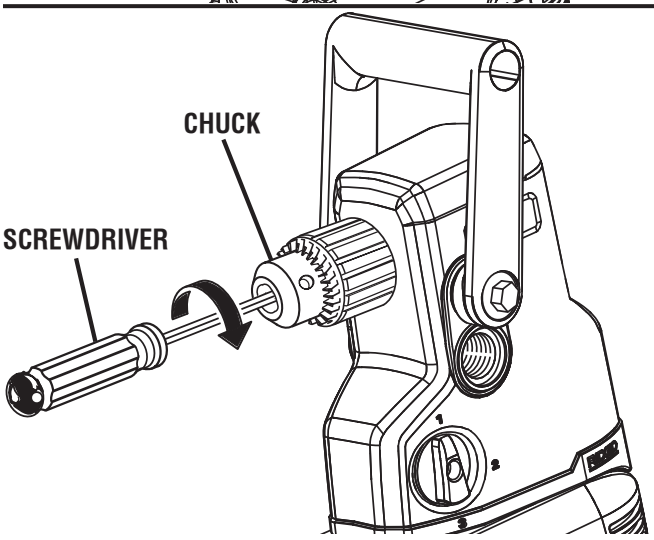



Fig. 14

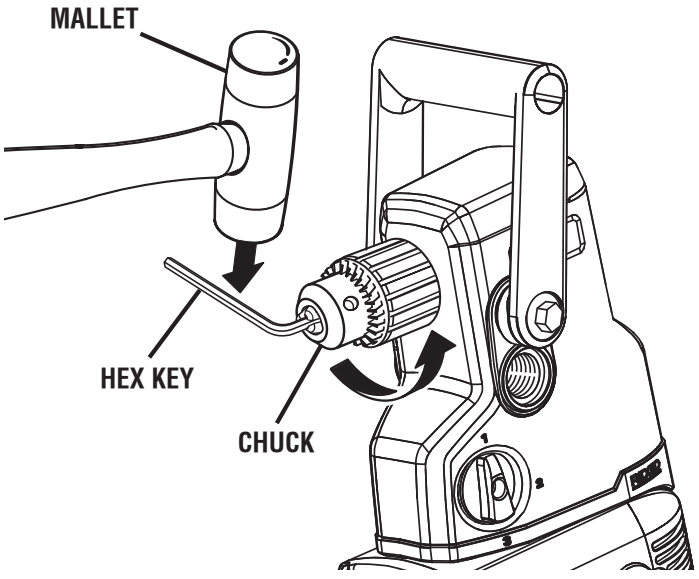



Fig. 15

# WARRANTY

## RIDGID® HAND HELD AND STATIONARY POWER TOOL 3 YEAR LIMITED SERVICE WARRANTY

Proof of purchase must be presented when requesting warranty service.

Limited to RIDGID® hand held and stationary power tools purchased 2/1/04 and after. This product is manufactured by One World Technologies, Inc. The trademark is licensed from RIDGID, Inc. All warranty communications should be directed to One World Technologies, Inc., attn: RIDGID Hand Held and Stationary Power Tool Technical Service at (toll free) 1-866-539-1710.

### 90-DAY SATISFACTION GUARANTEE POLICY

During the first 90 days after the date of purchase, if you are dissatisfied with the performance of this RIDGID® Hand Held and Stationary Power Tool for any reason you may return the tool to the dealer from which it was purchased for a full refund or exchange. To receive a replacement tool you must present proof of purchase and return all original equipment packaged with the original product. The replacement tool will be covered by the limited warranty for the balance of the 3 YEAR service warranty period.

### WHAT IS COVERED UNDER THE 3 YEAR LIMITED SERVICE WARRANTY

This warranty on RIDGID® Hand Held and Stationary Power Tools covers all defects in workmanship or materials and normal wear items such as brushes, chucks, motors, switches, cords, gears and even cordless batteries in this RIDGID® tool for three years following the purchase date of the tool. Warranties for other RIDGID® products may vary.

### HOW TO OBTAIN SERVICE

To obtain service for this RIDGID® tool you must return it; freight prepaid, or take it in to an authorized service center for RIDGID® branded hand held and stationary power tools. You may obtain the location of the authorized service center nearest you by calling (toll free) 1-866-539-1710 or by logging on to the RIDGID® website at www.ridgid.com. When requesting warranty service, you must present the original dated sales receipt. The authorized service center will repair any faulty workmanship, and either repair or replace any part covered under the warranty, at our option, at no charge to you.

### WHAT IS NOT COVERED

This warranty applies only to the original purchaser at retail and may not be transferred. This warranty only covers defects arising under normal usage and does not cover any malfunction, failure or defect resulting from misuse, abuse, neglect, alteration, modification or repair by other than an authorized service center for RIDGID® branded hand held and stationary power tools. Consumable accessories provided with the tool such as, but not limited to, blades, bits and sand paper are not covered.

**RIDGID, INC. AND ONE WORLD TECHNOLOGIES, INC. MAKE NO WARRANTIES, REPRESENTATIONS OR PROMISES AS TO THE QUALITY OR PERFORMANCE OF ITS POWER TOOLS OTHER THAN THOSE SPECIFICALLY STATED IN THIS WARRANTY.**

### ADDITIONAL LIMITATIONS

To the extent permitted by applicable law, all implied warranties, including warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, are disclaimed. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, that cannot be disclaimed under state law are limited to three years from the date of purchase. One World Technologies, Inc. and RIDGID, Inc. are not responsible for direct, indirect, incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**One World Technologies, Inc.**
P.O. Box 35, Hwy. 8
Pickens, SC 29671

# OPERATOR'S MANUAL

## 1/2 in. RIGHT ANGLE DRILL
## DOUBLE INSULATED

## R7130

**Customer Service Information:**

For parts or service, contact your nearest RIDGID authorized service center. Be sure to provide all relevant information when you call or visit. For the location of the authorized service center nearest you, please call 1-866-539-1710 or visit us online at www.ridgid.com.

The model number of this tool is found on a plate attached to the motor housing. Please record the serial number in the space provided below. When ordering repair parts, always give the following information:

**Model No.** R7130

**Serial No.** _____

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